

TOP SECRET**PRIORITY**
OUT55382P 020454Z
FM NPIC

1965 APR 2 05 37Z

AFSSO USAFE
AFSSO PACAF

CNO

S

OPCEN

YWQLAZC/AFSSO SAC
YWQLAZC/AFSSO ACIC
YWQLAZC/AFSSO FTD
ZEM

T O P S E C R E T

CITE NPIC 4185.

SUBJECT: CAMERA INFORMATION FOR MISSION 1018-1.

1. THIS PHOTOGRAPHY INVOLVES THE USE OF EIGHT CAMERAS: TWO MAIN CAMERAS, FOUR HORIZON CAMERAS, A STELLAR CAMERA, AND AN INDEX CAMERA.

2. CAMERA DATA

	FORWARD	AFT	STAR HOR	PORT HOR	STELLAR	INDEX
FOCAL LENGTH (MM)	609.628	609.295	FWD 55.02	FWD 54.69	(1)84.0297	(1)38.0972
			AFT 54.48	AFT 55.02	(2)84.0270	(2)38.1981

	25	21	25	25	NONE	21
FILTER (WRITTEN)						
APERTURE	F3.5	F3.5	F8.0	F6.8	F1.8	F4.5
SLIT WIDTH (IN.)	.250	.175	1/100	1/100	2.0	1/500
EXPOSURE (SEC.)						
FILM	4404	4404	4404	4404	4401	4400

2 APR 1965

COPIES RECEIVED 7

CyNo.	Office	
1	Master File	25X1
2	OS	
	ADMIN	25X1
	SEC BR	
	P&DS	25X1
	CSD	
	IPD	
	PD	
	PSD	
34	TID	25X1
	PAG	
	CIA/ID	
	DIAX-4	
	SPAD	
	NSA L	
	DIAAP	
	Destroyed	

TOP SECRETGROUP 1
Excluded from automatic
downgrading and
declassification

-2-

RESOLUTION (L/MM)	168	178	FWD	87	FWD	112	(1)	75.8
			AFT	111	AFT	109	(2)	78.6

NOTE: NUMBERS (1) AND (2) UNDER STELLAR AND INDEX HEADINGS REFER TO PART-1 AND PART-2 OF THE MISSION.

3. LENS DISTORTION (PIN CUSHION) MM

A. MAIN LENS	3	2	1	0	359	358	357
FWD UNIT	.002	.001	.000	.000	.001	.002	.004
AFT UNIT	.004	.001	.000	.000	.000	.001	.003
B. HORIZON CAMERAS (MM)					FWD		AFT
			PORT	STARBOARD	PORT	STARBOARD	
(RADIAL) 10 DEGREES		.010		.004	.001	.004	
20 DEGREES		.015		.012	.001	.002	
(TANGENTIAL) MAX VECTOR		.006		.004	.008	.005	

4. CAMERA ANGLES

DEGREES MINUTES

A. ANGLE BETWEEN MAIN CAMERAS		29	52.62
B. ANGLE BETWEEN STELLAR AND INDEX CAMERAS	PART (1)	89	51
	PART (2)	90	07
C. DEPRESSION ANGLE BETWEEN HORIZON	FWD STARBOARD	15	32
AND MAIN CAMERAS	FWD PORT	14	45
	AFT STARBOARD	14	47
	AFT PORT	15	00

5. TIMING MARKS

FREQUENCY MARKS WILL APPEAR ON THE FILM AT A RATE OF 200 CYCLES PER SECOND.

6. IMAGE MOTION COMPENSATION DATA (CYCLE RATE (CPS), GROUND ANGULAR

-3-

VELOCITY (GAV) IN RAD/SEC, AND PASSES WHERE USED.)

REF. LEVEL			AMPL. LEVEL			PASSES
NO.	CPS.	GAV.	NO.	CPS.	GAV.	
4	.3893	.0352	7	.0668	.0060	1D1 THRU 16D1
3	.4055	.0367	7	.0668	.0060	21D1 THRU 65D1

7. PROGRAM TIME DATA

PASS	CAMERA ON TIME				PROGRAM ON TIME	PROGRAM
	(ZEBRA TIME)				UP RAMP	DURATION
	DAY	HOUR	MIN	SEC	SEC	SEC
1D1	25	22	39	05	1330	37
2D1	26	00	17	02	1865	44
5D1	26	04	30	38	1058	202
6D1	26	05	59	33	1134	41
6D2	26	06	04	36	1438	71
6D3	26	06	09	19	1720	142
7D1	26	07	28	33	1135	26
7D2	26	07	31	49	1331	119
7D3	26	07	36	14	1596	55
8AE	26	08	41	01	143	43
8D1	26	08	55	15	998	58
8D2	26	09	01	28	1370	218
8D3	26	09	09	50	1873	83
10D1	26	11	53	09	992	59
10D2	26	11	56	13	1176	56
10D3	26	11	59	01	1344	99
10D4	26	12	10	35	2038	157

- 4 -

16D1	26	20	58	25	1686	55
21D1	27	04	14	54	1188	463
21D2	27	04	31	57	2211	69
21D3	27	04	34	23	2357	69
22D1	27	05	48	56	1494	54
22D2	27	05	51	25	1643	55
22D3	27	06	01	26	2243	98
23D1	27	07	16	25	1407	71
23D2	27	07	20	15	1637	56
24AE	27	08	25	00	186	44
24D1	27	08	46	40	1486	247
25D1	27	10	14	38	1427	227
26D1	27	11	37	01	1033	59
26D2	27	11	40	04	1217	56
26D3	27	11	42	30	1363	167
26D4	27	11	58	20	2312	69
31D1	27	19	13	10	1725	69
31D2	27	19	14	53	1829	53
32D1	27	20	42	59	1780	55
37D1	28	04	02	59	1504	189
38D1	28	05	32	10	1522	69
38D2	28	05	35	24	1715	172
38D3	28	05	44	26	2257	68
38D4	28	05	46	22	2374	54
39D1	28	06	58	06	1343	219
39D2	28	07	03	42	1679	54

40D1	28	08	22	27	1071	76
40D2	28	08	29	19	1482	247
41D1	28	10	04	40	1869	172
42D1	28	11	25	55	1411	190
48D1	28	20	25	11	1769	37
52D1	29	02	12	07	1255	56
54D1	29	05	14	47	1549	336
55D1	29	06	41	40	1431	175
57D1	29	09	39	59	1466	337
58D1	29	11	06	53	1348	385
59D1	29	12	39	04	1547	98
59D2	29	12	49	07	2149	142
65D1	29	21	36	59	1816	37

(NOTE: PASSES 5D1, 6D1, 7D1, 7D2, 21D1: DATA IS FOR THE MASTER (FWD) UNIT ONLY.)

ON PASS 5D1, THE MASTER UNIT CONTINUED TO OPERATE AFTER THE SLAVE UNIT STOPPED.

ON PASS 6D1, THE SLAVE UNIT CONTINUED TO OPERATE AFTER THE MASTER UNIT STOPPED.

ON PASS 7D1, THE SLAVE UNIT CONTINUED TO OPERATE AFTER THE MASTER UNIT STOPPED.

ON PASS 7D2, THE SLAVE UNIT STARTED PRIOR TO THE MASTER UNIT BUT BOTH UNITS STOPPED AT THE SAME TIME.

ON PASS 21D1, BOTH UNITS STARTED TOGETHER BUT THE MASTER CONTINUED AFTER THE SLAVE STOPPED. THE SLAVE UNIT WAS STARTED AGAIN AND BOTH UNITS FINISHED AT THE SAME TIME.

-6-

EXCEPT FOR THE DATA LISTED BELOW, ALL OTHER DATA IS THE SAME FOR BOTH UNITS.

THE FOLLOWING DATA IS FOR THE SLAVE (AFT) UNIT ONLY:

5D1	26	04	30	38	1058	49
6D1	26	05	59	33	1134	118
7D1	26	07	28	33	1135	88
7D2	26	07	31	23	1305	145
21D1	27	04	14	54	1188	41
21D1	27	04	18	08	1382	269

8. TIME CORRELATION (MILLISECONDS) NOT AVAILABLE.

9. REMARKS

S/I UNIT - PART 1 D 20/20/20

PART 2 D 22/22/22

GP-1

T O P S E C R E T

-END OF MESSAGE-

(ALSO PASSED TO)

25X1